## SEQUENCE LISTING

<110> TSUBOUCHI, Kozo YAMADA, Hiromi

<130> OPS 635

<140> US 10/789 494

<141> 2004-02-27

<150> JP 2003-55048

<151> 2003-02-28

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Tyr Ser Arg Arg Asn Val Arg Lys Asn

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Asp Glu Tyr Val Asp Asn

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Glu Asp Val Leu Met Lys Thr Leu Ser Asp Gly Thr Val Ala

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105

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Gln Ser Tyr Val Ala Ala Asp Ala Gly Ala Tyr Ser Gln Ser

115
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Thr

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Thr

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Ser Gly Tyr Glu Tyr Ala Trp Ser Ser Glu Ser Asp Phe Gly
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Thr

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Ser Arg Arg Glu Gly Tyr Glu Tyr Ala Trp Ser Ser Lys Ser 15 20 25

Asp Phe Glu Thr

30

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Ala Ala Ser Ser Val Ser Ser Ala Ser Ser Arg Ser Tyr Asp
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Tyr Ser Arg Arg Asn Val Arg Lys Asn Cys Gly Ile Pro Arg
15 20 25

Arg Gln Leu Val Val Lys Phe Arg Ala Leu Pro Cys Val Asn 30 35 40

Cys

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Tyr Ala Ala Pro Ser Val Thr Ile Asn Gln Tyr Ser Asp Asn
15 20 25

Glu Ile Pro Arg Asp Ile Asp Asp Gly Lys Ala Ser Ser Val 30 35 40

Ile Ser Arg Ala Trp Asp Tyr Val Asp Asp Thr Asp Lys Ser
45 50 55

Ile Ala Ile Leu Asn Val Gln Glu Ile Leu Lys Asp Met Ala 60 65 70

Ser Gln Gly Asp Tyr Ala Ser Gln Ala Ser Ser Val Ala Gln
75 80

Thr Ala Gly Ile Ile Ala His Leu Ser Ala Gly Ile Pro Gly 85 90 95

Asp Ala Cys Ala Ala Ala Asn Val Ile Asn Ser Tyr Thr Asp 100 105 110 Gly Val Arg Ser Gly Asn Phe Ala Gly Phe Arg Gln Ser Leu 120 125 115 Gly Pro Phe Phe Gly His Val Gly Gln Asn Leu Asn Leu Ile 135 130 Asn Gln Leu Val Ile Asn Pro Gly Gln Leu Arg Tyr Ser Val 145 150 Gly Pro Ala Leu Gly Cys Ala Gly Gly Arg Ile Tyr Asp 160 165 155 Phe Glu Ala Ala Trp Asp Ala Ile Leu Ala Ser Ser Asp Ser 170 175 Ser Phe Leu Asn Glu Glu Tyr Cys Ile Val Lys Arg Leu Tyr 185 190 Asn Ser Arg Asn Ser Gln Ser Asn Asn Ile Ala Ala Tyr Ile 200 205 210 Thr Ala His Leu Leu Pro Pro Val Ala Gln Val Phe His Gln 215 220 Ser Ala Gly Ser Ile Thr Asp Leu Leu Arg Gly Val Gly Asn 230 Gly Asn Asp Ala Thr Gly Leu Val Ala Asn Ala Gln Arg Tyr 240 245 250 Ile Ala Gln Ala Ala Ser Gln Val His Val 255 260

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Tyr Ala Thr Ala Asn Asn Leu His His His Asp Glu Tyr Val
15 20 25

Asp Asn His Gly Gln Leu Val Glu Arg Phe Thr Thr Arg Lys
30 35 40

His Tyr Glu Arg Asn Ala Ala Thr Arg Pro His Leu Ser Gly
45 50 55

Asn Glu Arg Leu Val Glu Thr Ile Val Leu Glu Glu Asp Pro 60 65 70

Tyr Gly His Glu Asp Ile Tyr Glu Glu Asp Val Ile Asn
75
80

Arg Val Pro Gly Ala Ser Ser Ser Ala Ala Ala Ser Ser 85 90 95

Ala Ser Ala Gly Ser Gly Gln Thr Ile Ile Val Glu Arg Gln
100 105 110

Ala Ser His Gly Ala Gly Gly Ala 115 120

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Ala Gly Ala Ala Gly Ala Ala Gly Ser Ser Ala Arg
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Gly Gly

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Ser Gly Phe Tyr Glu Thr His Asp Ser Tyr Ser Ser Tyr Gly 5

Ser Gly Ser Ser Ser Ala Ala Ala Ser Ser Gly Ala Gly
15 20 25

Gly Ala Gly Gly Tyr Gly Trp Gly Asp Gly Gly Tyr Gly 30 35 40

Ser Asp Ser

45

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Gly Ser Gly Ala Gly Gly Arg Gly Asp Gly Gly Tyr Gly Ser
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Gly Ser Ser

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Arg Arg Ala Gly His Asp His Ala Ala Gly Ser Ser Gly Gly

5 10

Gly Tyr Ser Trp Asp Tyr Ser Ser Tyr Gly Ser Glu Ser

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Gly Ser Gly Ala Gly Gly Val Gly Gly Gly Tyr Gly Gly Gly

5 10

Asp Gly Gly Tyr Gly Ser Gly Ser Ser

15 20

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Arg Arg Ala Gly His Asp Arg Ala Ala Gly Ser

5 10

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Ser Gly Ala Gly Gly Ser Gly Gly Gly Tyr Gly Trp Gly Asp
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Gly Gly Tyr Gly Ser Asp Ser

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Gly Ser Gly Ala Gly Arg Ala Gly

5

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Gly Asp Tyr Gly Trp Gly Asp Gly Gly Tyr Gly Ser Asp Ser

5 10

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Arg Gln Ala Gly His Glu Arg Ala Ala Gly Ser

5 10

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Ser Gly Ala Gly Gly Ser Gly Arg Gly Tyr Gly Trp Gly Asp

5 10

Gly Gly Tyr Gly Ser Asp Ser

15 20

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Gly Ser Gly Ala Gly Gly Ala Gly Gly Asp Tyr Gly Trp Gly

5 10

Asp Gly Gly Tyr Gly Ser Asp

15 20

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Gly Ser Gly Ala Gly Gly Ala Gly Gly Asp Tyr Gly Trp Gly

5 10

Asp Gly Gly Tyr Gly Ser Asp Ser

15 20

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Ser Gly Ala Gly Gly Gly Gly Tyr Gly Trp Gly Asp

5 10

Gly Gly Tyr Gly Ser Asp Ser

15 20

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Ser Gly Ala Gly Gly Ala Gly Gly Tyr Gly Gly Ser
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Asp Ser

15

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Ser Gly Ala Gly Gly Ser Gly Gly Gly Tyr Gly Trp Gly Asp
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Gly Gly Tyr Gly Ser Gly Ser

15 20

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Gly Ser Gly Ala Gly Gly Val Gly Gly Tyr Gly Trp Gly

5 10

Asp Gly Gly Tyr Gly Ser Asp Ser

15 20

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Ser Gly Ala Gly Gly Arg Gly Asp Gly Gly Tyr Gly Ser Gly

5 10

Ser Ser

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Gly Ser Gly Ala Gly Gly Ala Gly Gly Tyr Gly Trp Gly

5 10

Asp Gly Gly Tyr Gly Ser Asp Ser

15 20

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Arg Arg Ala Gly His Asp Arg Ala Ala Gly Cys

5 10

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Ser Gly Ala Gly Gly Thr Gly Gly Gly Tyr Gly Trp Gly Asp

5 10

Gly Gly Tyr Gly Ser Asp Ser

15 20

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Ser Gly Ala Gly Gly Ser Gly Gly Gly Tyr Gly Trp Gly Asp

5 10

Gly Gly Tyr Gly Ser Asn Ser

15 20

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Ser Gly Ala Gly Arg Ser Gly Gly Gly Tyr Gly Trp Gly Asp
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Gly Gly Tyr Ser Ser Asp Ser 15 20

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Ser Gly Ala Gly Gly Ser Gly Gly Tyr Gly Gly Ser 5

Asp Ser

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Gly Ser Gly Ala Gly Gly Val Gly Gly Tyr Gly Trp Gly

5 10

Asp Gly Gly Tyr Gly Gly Tyr Gly Ser Asp Ser

15 20 25

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Gly Ser Gly Ala Gly Gly Val Gly Gly Gly Tyr Gly Arg Gly

5 10

Asp Ser Gly Tyr Gly Ser Gly Ser Ser

15 20

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Gly His Gly Arg Ser Ser Gly Ser

5

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Ser Gly Ala Gly Gly Ser Gly Gly Gly Tyr Gly Trp Asp Tyr

5 10

Gly Ser Tyr Gly Ser Asp Ser

15 20

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Ser Ser Gly Ala Gly Gly Ser Gly Gly Tyr Gly Trp Asp

5 10

Tyr Gly Gly Tyr Gly Ser Asp Ser

15 20

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Gly Ser Gly Ala Gly Gly Ser Gly Gly Gly Tyr Gly Trp Gly

5 10

Asp Gly Gly Tyr Gly Ser Asp Ser

15 20

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Ser Arg Arg Ala Gly His Asp Arg Ala Tyr Gly Ala Gly Ser 5

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Gly Ala Gly Ala Ser Arg Pro Val Gly Ile Tyr Gly Thr Asp
5 10

Asp Gly Phe Val Leu Asp Gly Gly Tyr Asp Ser Glu Gly Ser 15 20 25

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Ser Ser Ser Gly Arg Ser Thr Glu Gly His Pro Leu Leu Ser

10

Ile Cys Cys Arg Pro Cys Ser His Arg His Ser Tyr Glu Ala

15 20 25

Ser Arg Ile Ser Val His

30

<210> 57

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Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala

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Gly Ala Gly Tyr Gly Ala Gly Tyr

15 20

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Gly Ala Gly Ala Gly Ser Gly Ala Ala Ser Gly Ala Gly Ala

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Gly Ala Gly Ala Gly Thr

15 20

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Ala Ala Ser Ser Val Ser Ser Ala Ser Ser Arg Ser Tyr Asp
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Tyr Ser Arg Arg Asn Val Arg Lys Asn

15 20

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Gly Ser Ser Gly Phe Gly Pro Tyr Val Ala His Gly Gly Tyr
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Ser Gly Tyr Glu Tyr Ala Trp Ser Ser Glu Ser Asp Phe Gly
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Thr

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Ala Ala Ala Ala Ala Ala Ala Ala Ala

5 10

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Tyr Gly Trp Gly Asp Gly Gly Tyr Gly Ser Asp Ser

5 10

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Ser Gly Ala Gly Gly Ser Gly Gly Tyr Gly Gly Tyr Gly Ser

5 10

Asp Ser

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Gly Ser Gly Ala Gly Gly Arg Gly Asp Gly Gly Tyr Gly Ser

5 10

Gly Ser Ser

15

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Arg Arg Ala Gly His Asp Arg Ala Ala Gly Ser

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Asp Glu Tyr Val Asp Asn

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Val Glu Thr Ile Val Leu Glu Glu Asp Pro Tyr Gly His Glu

5 10

Asp Ile Tyr Glu Glu Asp

15 20

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Gly Ala Gly Ala Gly Ser

5 .

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Asp Ser Asp Gly Asp Glu

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Asp Glu Asp Glu Asp Glu

5

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Glu Asp Glu Asp Glu Asp

5

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Ser Ser Glu Ser Ser Glu

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Tyr Gly Gly Tyr Glu Tyr

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Asp Gly Gly Tyr Gly Gly Asp

5

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Asp Glu Tyr Asp Glu Tyr

5

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Tyr Glu Glu Asp Tyr Glu Glu Asp

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Glu Glu Tyr Glu Glu Tyr

5

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Tyr Tyr Tyr Tyr Tyr

5

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Glu Gly Ser Glu Gly Ser

5

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Glu Glu Glu Glu Glu Glu Glu Glu

5 10

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Tyr Tyr Tyr Tyr